

Page 12, after the last line, insert the following:

--I claim:--

**IN THE CLAIMS**

Please substitute amended claims 1-15 as presented below for the same-numbered claims that were pending prior to the filing of this paper. A marked-up version of the amended claims is attached.

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1           1.     (Amended) A method for authenticating a portable object including  
2 information processing means and information storage means, the information  
3 storage means containing at least one code defining operation steps capable of  
4 being executed by the portable object, as well as a one-way function, comprising  
5 sending the portable object an order for executing a calculation of a result by  
6 applying to said one-way function at least part of said code and using said result to  
7 decide whether or not the portable object is authentic.

1           2.     (Amended) A method according to claim 1, wherein said result enters  
2 into the implementation of a predetermined operation, said operation being  
3 performed successfully only when the portable object is authentic.

1           3.     (Amended) A method according to claim 2, wherein said predetermined  
2 operation comprises a decryption operation, said result making it possible to produce  
3 an associated decryption key.

1           4.     (Amended) A method according to claim 1, wherein said part of said  
2 code used in the calculation, comprises a machine code.

1           5.     (Amended) A method according to claim 1, wherein the portable object  
2 contains a real code defining operations designed to be executed by the portable  
3 object, and a dummy code defining operations not designed to be executed by the  
4 portable object, said code used in the calculation of a result comprising a dummy  
5 code.

1           6.       (Amended) A method according to claim 1, further comprising  
2 repeatedly sending said order to the portable object during its life, prior to execution  
3 by the portable object of said operation steps.

1           7.       (Amended) A method according to claim 1, wherein said code used in  
2 the calculation is defined by a start address and an end address in the information  
3 storage means, and further including the step of sending said start and end  
4 addresses to the portable object.

1           8.       (Amended) A method according to claim 1, wherein said code  
2 comprises a set of binary words, said code used in the calculation being defined by a  
3 subset of said binary words comprising binary words distributed in the information  
4 storage means at a determined pitch, said pitch being sent to the portable object.

1           9.       (Amended) A method for having a portable object execute a sensitive  
2 operation, the portable object comprising information processing means and  
3 information storage means, comprising: storing in the information storage means at  
4 least one code defining operations capable of being executed by the portable object,  
5 as well as a one-way function, and sending the portable object an order so that the  
6 portable object executes a calculation of a result by applying to said one-way  
7 function at least part of said code, said result entering into the implementation of said  
8 sensitive operation, said operation being performed successfully only when the  
9 portable object is authentic.

1           10.    (Amended) A method according to claim 9, wherein the code part used  
2   in the calculation comprises a machine code.

1           11.    (Amended) A method according to claim 9, wherein the portable object  
2   contains a real code defining operations designed to be executed by the portable  
3   object, and a dummy code defining operations not designed to be executed by the  
4   portable object, said code part used in the calculation comprising a dummy code.

1           12.    (Amended) A portable object, comprising: information processing  
2   means, information storage means, the information storage means containing at  
3   least one code defining operations capable of being executed by the portable object,  
4   as well as a one-way function, and means for executing a calculation of a result by  
5   applying to said one-way function at least part of said code.

1           13.    (Amended) A portable object according to claim 12, wherein said code  
2   part used in the calculation comprises a machine code.

1           14.    (Amended) A device comprising: information processing means,  
2   information storage means, said information processing means designed to  
3   communicate with a portable object in order to authenticate the portable object, the  
4   portable object comprising: information processing means, information storage  
5   means, the information storage means of the portable object containing at least one  
6   code defining operations capable of being executed by the portable object, as well  
7   as a one-way function, and means for sending the portable object an order so that

8 the portable object executes a calculation of a result by applying to said one-way  
9 function at least part of said code of the portable object.

1 15. (Amended) A device according to claim 14, wherein said code part  
2 used in the calculation comprises a machine code.

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